

Amendments to the Specification:

Please replace the paragraph at page 9, lines 12-18 of the originally-filed specification with the following amended paragraph:

Figures 5A illustrates a general implementation of the present invention. An error signal (e) 505 is received and decomposed (510) into a plurality of signal components 515. The signal components 515 are transformed (520) into a plurality of transformed components 525. The transformation may include the application of any function or coefficient to a decomposed signal component. The transformed signal components 525 are summed (530) to generate a control signal 535. The control signal may be used, for example, by a plant 540 to correct or compensate for the error (e). As is commonly known in the art, a plant refers to the object that is to be controlled, the system under control, and/or the controlled system.

Please replace the paragraph at page 9, lines 24-32 of the originally-filed specification with the following amended paragraph:

Figure 5B illustrates a more specific implementation of the present invention using wavelet theory. An error signal (e) 555 is received and decomposed according to wavelet theory (560) into a plurality of wavelet signal components 565. The wavelet signal components include high, medium and low components. The signal components 565 are transformed (570) into a plurality of transformed wavelet components 575. The illustrated transformation includes the application of any function (f) and a coefficient (K) for each wavelet signal component 565. The transformed signal components 575 are summed (580) to generate a control signal 585. The control signal may be used, for example, by a plant 590 to correct or compensate for the error (e). As is commonly known in the art, a plant refers to the object that is to be controlled, the system under control, and/or the controlled system.